

## ABSTRACT

Directional hearing is improved given the binaural coverage for a hearing aid user with two hearing aid devices wearable at the ears. The respective signal transit times and/or signal amplitudes and/or amplifications of an electrical signal are respectively measured in a signal path between an input transducer and an output transducer and that data with respect to the measured signal transit times and/or signal amplitudes and/or gains is transmitted onto the respectively other hearing aid device. As a result, the signal transit times and the signal amplitudes of the electrical signals through the two hearing aid devices can be matched to one another. The hearing aid devices thus cause no phase or amplitude distortion, and the natural phase shift as well as the natural amplitude difference of a sound signal incident from a specific direction are thus preserved. The directional information is thus also preserved for the hearing aid user.